

WEATHER RADAR: A TOOL FOR DANGEROUS METEOROLOGICAL PHENOMENA DETECTION

Meteorological radars are convenient and valuable modern instrument for Remote Sensing that help to observe, study and understand meteorological processes and formation as well as to predict severe weather. Their indisputable advantages are distant obtaining information about objects and relatively quick obtaining information from large areas.

During the workshop the radar characteristics of different meteorological formation including Radar Reflectivity, Parameters of Doppler Spectrum, Polarization Parameters and combined Doppler-Polarimetric Characteristics will be discussed. Also the overview of modern and prospective radar methods of detecting zones of meteorological hazards will be done, particularly methods of detection showers, hail, turbulence, windshears, lightning, volcano ash clouds, areas of possible aircraft icing.